

SEQUENCE LISTING

<110> Analytica Ltd

<120> PHOSPHOLIPASE INHIBITORS FOR THE TREATMENT OF CANCER

<130> 2404732/EJH

<140> US 09/831,744

<141> 1999-11-12

<150> US 60/108,254

<151> 1998-11-12

<160> 45

<170> PatentIn version 3.0

<210> 1

<211> 202

<212> PRT

<213> Notechis scutatus

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1 5 10 15

Gly Ser Cys His Ser Cys Glu Ile Cys His Asn Leu Gly Arg Asp Cys

20 25 30

Glu Thr Glu Glu Ala Glu Glu Cys Ala Ser Pro Glu Asp Gln Cys Gly

35 40 45

Thr Val Leu Met Glu Val Ser Ser Ala Pro Ile Ser Phe Arg Ser Ile

50 55 60

His Arg Asn Cys Phe Ser Ser Ser Leu Cys Lys Leu Glu Arg Phe Asp

65 70 75 80

Ile Asn Ile Gly His Asp Ser Tyr Leu Arg Gly Arg Ile His Cys Cys
85 90 95

Asp Glu Ala Arg Cys Glu Ala Gln Gln Phe Pro Gly Leu Pro Leu Ser
100 105 110

Phe Pro Asn Gly Tyr His Cys Pro Gly Ile Leu Gly Val Phe Ser Val
115 120 125

Asp Ser Ser Glu His Glu Ala Ile Cys Arg Gly Thr Glu Thr Lys Cys
130 135 140

Ile Asn Leu Ala Gly Phe Arg Lys Glu Arg Phe Pro Gly Asp Ile Ala
145 150 155 160

Tyr Asn Ile Lys Gly Cys Thr Ser Ser Cys Pro Glu Leu Arg Leu Ser
165 170 175

Asn Arg Thr His Glu Glu Asp Arg Asn Gly Leu Ile Lys Val Glu Cys
180 185 190

Thr Asp Ala Ser Lys Ile Thr Pro Ser Glu
195 200

<210> 2

<211> 202

<212> PRT

<213> Oxyuranus scutellatus

<400> 2

Met Ile Ser Leu Gln Ile Ile Cys Phe Leu Phe Val Leu Val Ala Arg
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Gly Ser Cys His Ser Cys Glu Ile Cys Arg Asn Phe Gly Lys Asp Cys
20 25 30

Glu Ser Glu Glu Ala Glu Glu Cys Ala Ser Pro Glu Asp Gln Cys Gly
35 40 45

Thr Val Leu Leu Glu Ile Ser Ser Ala Pro Ile Ser Phe Arg Ser Ile
50 55 60

His Arg Asn Cys Phe Ser Ser Ser Leu Cys Lys Leu Glu His Phe Asp
65 70 75 80

Ile Asn Ile Gly His Asp Ser Tyr Val Arg Gly Arg Ile His Cys Cys
85 90 95

Asp Glu Glu Arg Cys Glu Ala Gln Gln Phe Pro Gly Leu Pro Pro Ser
100 105 110

Leu Pro Asn Gly Tyr His Cys Pro Gly Ile Leu Gly Ala Phe Ser Val
115 120 125

Asp Ser Ser Glu His Glu Ala Ile Cys Arg Gly Thr Glu Thr Lys Cys
130 135 140

Ile Asn Leu Ala Gly Phe Arg Lys Glu Arg Tyr Pro Val Asp Ile Ala
145 150 155 160

Tyr Asn Ile Thr Gly Cys Thr Ser Ser Cys Pro Glu Leu Lys Leu Ser
165 170 175

Asn Arg Thr His Ala Glu Arg Arg Asn Ala Leu Ile Thr Leu Asp Cys
180 185 190

Thr Asp Ala Ser Lys Ile Ala Pro Ser Glu
195 200

<210> 3
<211> 609
<212> DNA
<213> Oxyuranus microlepidotus

<220>
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<222> (1)...(606)

<400> 3

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gga agc tgt cgc tca tgt gaa att tgt cac aat ttt gga aaa gat tgc	96
Gly Ser Cys Arg Ser Cys Glu Ile Cys His Asn Phe Gly Lys Asp Cys	
20 25 30	
gag agt gag gag gca gag gaa tgt gcc tct cca gaa gat caa tgt ggc	144
Glu Ser Glu Glu Ala Glu Glu Cys Ala Ser Pro Glu Asp Gln Cys Gly	
35 40 45	
aca gtg ttg ctg gag att tca tca gca cct att tcc ttc cga tcc att	192
Thr Val Leu Leu Glu Ile Ser Ser Ala Pro Ile Ser Phe Arg Ser Ile	
50 55 60	
cat agg aac tgt ttc tca tcc agc ctc tgc aaa ctt gaa cac ttt gat	240
His Arg Asn Cys Phe Ser Ser Ser Leu Cys Lys Leu Glu His Phe Asp	
65 70 75 80	
ata aat att gga cat gat tcc tat gtg aga gga aga atc cac tgt tgt	288
Ile Asn Ile Gly His Asp Ser Tyr Val Arg Gly Arg Ile His Cys Cys	
85 90 95	
gat gaa gaa agg tgt gaa gca cag caa ttt cct gga ctg ccc ctc tcc	336
Asp Glu Glu Arg Cys Glu Ala Gln Gln Phe Pro Gly Leu Pro Leu Ser	
100 105 110	
ttt cca aat gga tac cac tgc cct ggc att ctt ggt gca ttc tca gtg	384
Phe Pro Asn Gly Tyr His Cys Pro Gly Ile Leu Gly Ala Phe Ser Val	
115 120 125	
gac agc tct gaa cat gaa gct att tgc aga gga acc gaa acc aaa tgc	432
Asp Ser Ser Glu His Glu Ala Ile Cys Arg Gly Thr Glu Thr Lys Cys	
130 135 140	
att aac ctt gcg gga ttc aga aaa gaa aga tat cct gta gac atc gct	480

Ile Asn Leu Ala Gly Phe Arg Lys Glu Arg Tyr Pro Val Asp Ile Ala
 145 150 155 160

tat aat atc aaa ggt tgc act tct tct tgt cca gaa ctg aag ttg agc 528
 Tyr Asn Ile Lys Gly Cys Thr Ser Ser Cys Pro Glu Leu Lys Leu Ser
 165 170 175

aat aga act cac gaa gaa cgt aga aat gat cta ata aca ctt gaa tgt 576
 Asn Arg Thr His Glu Glu Arg Arg Asn Asp Leu Ile Thr Leu Glu Cys
 180 185 190

aca gat gcc tcc aaa att aca cct tcc gaa taa 609
 Thr Asp Ala Ser Lys Ile Thr Pro Ser Glu
 195 200

<210> 4
 <211> 202
 <212> PRT
 <213> Oxyuranus microlepidotus

<400> 4
 Met Lys Ser Leu Gln Ile Ile Cys Pro Leu Phe Val Leu Val Ala Arg
 1 5 10 15

Gly Ser Cys Arg Ser Cys Glu Ile Cys His Asn Phe Gly Lys Asp Cys
 20 25 30

Glu Ser Glu Glu Ala Glu Glu Cys Ala Ser Pro Glu Asp Gln Cys Gly
 35 40 45

Thr Val Leu Leu Glu Ile Ser Ser Ala Pro Ile Ser Phe Arg Ser Ile
 50 55 60

His Arg Asn Cys Phe Ser Ser Ser Leu Cys Lys Leu Glu His Phe Asp
 65 70 75 80

Ile Asn Ile Gly His Asp Ser Tyr Val Arg Gly Arg Ile His Cys Cys
 85 90 95

Asp Glu Glu Arg Cys Glu Ala Gln Gln Phe Pro Gly Leu Pro Leu Ser
100 105 110

Phe Pro Asn Gly Tyr His Cys Pro Gly Ile Leu Gly Ala Phe Ser Val
115 120 125

Asp Ser Ser Glu His Glu Ala Ile Cys Arg Gly Thr Glu Thr Lys Cys
130 135 140

Ile Asn Leu Ala Gly Phe Arg Lys Glu Arg Tyr Pro Val Asp Ile Ala
145 150 155 160

Tyr Asn Ile Lys Gly Cys Thr Ser Ser Cys Pro Glu Leu Lys Leu Ser
165 170 175

Asn Arg Thr His Glu Glu Arg Arg Asn Asp Leu Ile Thr Leu Glu Cys
180 185 190

Thr Asp Ala Ser Lys Ile Thr Pro Ser Glu
195 200

<210> 5
<211> 28
<212> PRT
<213> Notechis scutatus

<220>
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Thr Lys Thr Cys Asp Ala Asn Gln Asp Thr Cys Val
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<210> 6

<211> 14
<212> PRT
<213> Notechis scutatus

<400> 6
Leu Glu Cys Glu Ile Cys Ile Gly Leu Gly Leu Glu Cys Asn
1 5 10

<210> 7
<211> 5
<212> PRT
<213> Notechis scutatus

<400> 7
Ala Leu Ser Tyr Lys
1 5

<210> 8
<211> 19
<212> PRT
<213> Notechis scutatus

<400> 8
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1 5 10 15

Pro His Asn

<210> 9
<211> 18
<212> PRT
<213> Notechis scutatus

<400> 9
Thr Cys Asp Ala Asn Gln Asp Thr Cys Val Thr Phe Gln Thr Glu Val
1 5 10 15

Ile Arg

<210> 10
<211> 8
<212> PRT
<213> Notechis scutatus

<400> 10
Ala Pro Val Thr Leu Gly Leu Ile
1 5

<210> 11
<211> 10
<212> PRT
<213> Notechis scutatus

<400> 11
Glu Cys Thr Glu His Leu Val Ser Cys Arg
1 5 10

<210> 12
<211> 13
<212> PRT
<213> Notechis scutatus

<400> 12
Phe Trp Asn Val Leu Glu Asp Val Glu Val Asp Phe Lys
1 5 10

<210> 13
<211> 29
<212> PRT
<213> Notechis ater

<400> 13
His Ser Cys Glu Ile Cys His Asn Phe Gly Arg Asp Cys Gln Ser Asp
1 5 10 15

Glu Ala Glu Glu Cys Ala Ser Pro Glu Asp Gln Cys Gly
20 25

<210> 14
<211> 29
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<213> Notechis ater

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His Ser Cys Glu Ile Cys His Asn Leu Gly Lys Asp Cys Glu Thr Glu
1 5 10 15

Glu Thr Glu Glu Cys Ala Ser Pro Glu Asp Gln Cys Gly
20 25

<210> 15
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<212> PRT
<213> Notechis ater

<400> 15
Ile Thr Pro Ser Glu
1 5

<210> 16
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<400> 16
Arg Phe Asp Ile Asn Ile
1 5

<210> 17
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<213> Notechis ater

<400> 17
Ile Asn Leu Ala Gly Phe
1 5

<210> 18
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<213> Notechis ater

<400> 18
Ala Ser Lys Ile Thr Pro Ser Glu
1 5

<210> 19
<211> 7
<212> PRT
<213> Notechis ater

<400> 19
Tyr Pro Gly Asp Ile Ala Ile
1 5

<210> 20
<211> 28
<212> PRT
<213> Notechis ater

<400> 20
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1 5 10 15

Thr Lys Thr Cys Asp Ala Asn Gln Asp Thr Cys Val
20 25

<210> 21
<211> 5
<212> PRT
<213> Notechis ater

<400> 21
Ala Leu Ser Tyr Lys
1 5

<210> 22
<211> 19
<212> PRT
<213> Notechis ater

<400> 22
Ser Cys Gly Thr Ser Asp Thr Cys His Leu Asn Tyr Val Glu Thr Thr
1 5 10 15

Pro His Asn

<210> 23
<211> 18
<212> PRT
<213> Notechis ater

<400> 23
Thr Cys Asp Ala Asn Gln Asp Thr Cys Val Thr Phe Gln Thr Glu Val
1 5 10 15

Ile Arg

<210> 24
<211> 8
<212> PRT
<213> Notechis ater

<400> 24
Ala Pro Val Thr Leu Gly Leu Ile
1 5

<210> 25
<211> 10
<212> PRT
<213> Notechis ater

<400> 25
Glu Cys Thr Glu His Leu Val Ser Cys Arg
1 5 10

<210> 26
<211> 13
<212> PRT
<213> Notechis ater

<400> 26
Phe Trp Asn Val Leu Glu Asp Val Glu Val Asp Phe Lys
1 5 10

<210> 27
<211> 10
<212> PRT
<213> Notechis ater

<400> 27
Gly Ser Glu Asn Gln Cys Lys Ser Ile Ile
1 5 10

<210> 28
<211> 22
<212> PRT
<213> Notechis ater

<400> 28
Val Asn Pro Pro Asn Gly Leu Gln Cys Pro Gly Cys Leu Gly Leu Ser
1 5 10 15

Ser Leu Glu Cys Thr Glu
20

<210> 29
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<212> PRT
<213> Notechis ater

<400> 29

Cys Gly Thr Ser Asp Thr Cys His Leu Asn Tyr Val Glu Thr
 1 5 10

<210> 30

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<400> 30

Glu Phe Gly Leu Phe Phe Arg
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<210> 31

<211> 183

<212> PRT

<213> Notechis ater

<400> 31

His Ser Cys Glu Ile Cys His Asn Phe Gly Lys Asp Cys Glu Gly Gly
 1 5 10 15

Glu Thr Glu Glu Cys Ala Ser Pro Glu Asp Gln Cys Gly Thr Val Leu
 20 25 30

Met Glu Val Ser Thr Ala Pro Ile Ser Phe Arg Ser Ile His Arg Asn
 35 40 45

Cys Phe Ser Ser Ser Leu Cys Lys Leu Glu Arg Phe Asp Ile Asn Ile
 50 55 60

Gly His Asp Ser Phe Leu Arg Gly Arg Ile His Cys Cys Asp Glu Ala
 65 70 75 80

Arg Cys Glu Ala Gln Gln Phe Pro Gly Leu Pro Leu Ser Phe Pro Asn
 85 90 95

Gly Tyr His Cys Pro Gly Ile Leu Gly Leu Phe Ser Val Asp Ser Ser
 100 105 110

Glu His Glu Ala Ile Cys Arg Gly Thr Glu Thr Lys Cys Ile Asn Leu
115 120 125

Ala Gly Phe Arg Arg Glu Arg Phe Pro Gly Asp Ile Ala Tyr Asn Ile
130 135 140

Lys Gly Cys Thr Ser Ser Cys Pro Glu Leu Arg Leu Ser Asn Arg Thr
145 150 155 160

His Glu Glu His Arg Asn Asp Leu Ile Lys Val Glu Cys Thr Glu Ala
165 170 175

Ser Lys Asn Thr Pro Ser Glu
180

<210> 32
<211> 182
<212> PRT
<213> Notechis ater

<400> 32
His Ser Cys Glu Ile Cys His Asn Phe Gly Lys Asp Cys Gln Ser Asp
1 5 10 15

Glu Thr Glu Glu Cys Ala Ser Ala Glu Asp Gln Cys Gly Thr Val Leu
20 25 30

Met Glu Val Ser Ser Ala Pro Ile Ser Phe Arg Ser Ile His Arg Lys
35 40 45

Cys Phe Ser Ser Ser Leu Cys Lys Leu Glu Arg Phe Asp Ile Asn Ile
50 55 60

Gly His Asp Ser Tyr Leu Arg Gly Arg Ile His Cys Cys Asp Glu Ala
65 70 75 80

Arg Cys Glu Ala Gln Gln Phe Pro Gly Leu Pro Leu Ser Phe Pro Asn
85 90 95

Gly Tyr His Cys Pro Gly Ile Leu Gly Val Phe Ser Val Asp Ser Ser
100 105 110

Glu His Glu Ala Ile Cys Arg Gly Thr Glu Thr Lys Cys Ile Asn Leu
115 120 125

Ala Gly Phe Arg Lys Glu Arg Tyr Pro Ile Asp Ile Ala Tyr Asn Ile
130 135 140

Lys Gly Cys Thr Ser Ser Cys Pro Glu Leu Arg Leu Asn Arg Thr His
145 150 155 160

Glu Glu His Arg Asn Asp Leu Ile Lys Val Glu Cys Thr Glu Ala Ser
165 170 175

Lys Ile Thr Pro Ser Glu
180

<210> 33

<211> 183

<212> PRT

<213> Notechis ater

<400> 33

His Ser Cys Glu Ile Cys His Asn Phe Gly Lys Asp Cys Glu Gly Gly
1 5 10 15

Val Thr Glu Glu Cys Ala Ser Pro Glu Asp Gln Cys Gly Thr Val Leu
20 25 30

Leu Glu Val Ser Thr Ala Pro Ile Ser Thr Arg Thr Ile His Arg Asn
35 40 45

Cys Phe Ser Ser Ser Leu Cys Lys Leu Glu Arg Phe Asp Ile Asn Ile
50 55 60

Gly His Asp Ser Tyr Met Arg Gly Arg Ile His Cys Cys Asp Glu Ala
65 70 75 80

Arg Cys Glu Ala Gln Gln Phe Pro Gly Leu Pro Leu Ser Phe Pro Asn
85 90 95

Gly Tyr His Cys Pro Gly Ile Leu Gly Leu Phe Ser Val Asp Ser Ser
100 105 110

Glu His Glu Ala Ile Cys Arg Gly Ser Glu Thr Lys Cys Ile Lys Ile
115 120 125

Ala Gly Phe Arg Arg Glu Arg Tyr Pro Ile Asp Ile Ala Tyr Asn Ile
130 135 140

Lys Gly Cys Thr Ser Ser Cys Pro Glu Leu Arg Leu Ser Asn Arg Thr
145 150 155 160

His Glu Glu His Arg Asn Asp Leu Ile Lys Val Glu Cys Thr Asp Ala
165 170 175

Ser Lys Ile Thr Pro Ser Glu
180

<210> 34
<211> 181
<212> PRT
<213> Notechis ater

<400> 34
Leu Glu Cys Glu Ile Cys Ile Gly Leu Gly Leu Glu Cys Asn Thr Trp
1 5 10 15

Thr Lys Thr Cys Asp Ala Asn Gln Asp Thr Cys Val Thr Phe Gln Thr
20 25 30

Glu Val Ile Arg Ala Pro Val Ser Leu Ser Leu Ile Ser Lys Ser Cys
35 40 45

Gly Thr Ser Asp Thr Cys His Leu Asn Tyr Val Glu Thr Ser Pro His
50 55 60

Asn Glu Leu Thr Val Lys Thr Lys Arg Thr Cys Cys Thr Gly Glu Glu
65 70 75 80

Cys Lys Thr Leu Pro Pro Pro Val Leu Gly His Lys Val Asn Pro Pro
85 90 95

Asn Gly Leu Gln Cys Pro Gly Cys Leu Gly Leu Ser Ser Lys Glu Cys
100 105 110

Thr Glu His Leu Val Ser Cys Arg Gly Ser Glu Asn Gln Cys Leu Ser
115 120 125

Ile Ile Gly Lys Glu Phe Gly Leu Phe Phe Arg Ala Leu Ser Tyr Lys
130 135 140

Gly Cys Ala Thr Glu Ser Leu Cys Thr Leu Phe Glu Lys Arg Phe Trp
145 150 155 160

Asn Val Leu Glu Asp Val Glu Val Asp Phe Lys Cys Thr Pro Ala Leu
165 170 175

Pro Lys Ser Ser Gln
180

<210> 35
<211> 500
<212> DNA
<213> Notechis ater

<400> 35
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tccttccgat ccattcatag gaactgtttc tcatccagcc tctgcaaact tgaacgcttt 180
gatataaata ttggacatga ttcctttttg agaggaagaa tccactgttg tgatgaagca 240
agggtgtgaag cacagcaatt tcctggactg cccctctcct ttccaaatgg ataccactgc 300
cctggaattc ttggtttatt ctcaaggac agctctgaac atgaagctat ttgcagagga 360
actgaaacca aatgcattaa ccttgcgaggga ttcagaagag aaagatttcc tggagacatc 420
gcttataata tcaaagggtg cacttcttct tgtccagaac tgagggttgag caatagaact 480
acgaagaaca tagaatgac 500

<210> 36
 <211> 501
 <212> DNA
 <213> Notechis ater

<400> 36
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 tccttccgat ccattcatag gaagtgtttc tcatccagcc tctgcaaact tgaacgcttt 180
 gatataaata ttggacatga ttcctatatt agaggaagaa tccactgttg tgatgaagca 240
 aggtgtgaag cacagcaatt tcctggactg cccctctcct ttccaaatgg ataccactgc 300
 cctggcattc ttggtgtatt ctcaaggac agctctgaac atgaagctat ttgcagagga 360
 actgaaacca aatgcattaa ccttgcgga ttcagaaaag aaagatatcc tatagacatc 420
 gcttataata tcaaaggttg cacttcttct tgtccagaac tgaggttgaa tagaactcac 480
 gaagaacata gaaatgatct a 501

<210> 37
 <211> 501
 <212> DNA
 <213> Notechis ater

<400> 37
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 tccacccgaa ccattcatag gaactgtttc tcatccagcc tctgcaaact tgaacgcttt 180
 gatataaata ttggacatga ttcctatatg agaggaagaa tccactgttg tgatgaagca 240
 aggtgtgaag cacagcaatt tcctggactg cccctctcct ttccaaatgg ataccactgc 300
 cctggcattc ttggtttatt ctcaaggac agctctgaac atgaagctat ttgcagagga 360
 agtgaaccca aatgcattaa aattgcggga ttcagaagag aaagatatcc tatagacatc 420
 gcttataata tcaaaggttg cacttcttct tgtccagaac tgaggttgag caatagaact 480
 cacgaagaac atagaaatga t 501

<210> 38
 <211> 825
 <212> DNA
 <213> Notechis ater

<400> 38
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gatgctaatc aagatacttg tgttaccttt caaactgaag tgataagagc ccctgtgtcc 120
ctctctttga tttcaaaatc ctgtggtact tctgacactt gccatcttaa ctacgtggag 180
acgagtccac ataatgaact aacagtgaag accaaaagaa cctgctgtac tggggaggaa 240
tgtaaaactc tgccaccgcc tgtgcttggc cacaaagtca acccacccaa cggacttcag 300
tgtcctggat gccttggatt gtcctcaaaa gaatgcactg aacacctggt ttcctgccgg 360
ggatctgaaa accagtgttt gtctataatt gggaaagaat ttggcctttt cttcagagca 420
ttgtcttata aaggatgtgc tacggagagt ctgtgcactt tatttgagaa gaggttctgg 480
aatgttttag aggatgttga aacaacatac tccaaaacag ccaaaacagc caaaacagca 540
ctacatactc ctaaccgtat gcacaacaac caaaaatgaa atccctacag atcatctgtc 600
ttcttttcgt tttggtagcc agaggaagct gtcaaaaatg aaatccctac agatcatctg 660
tcttcttttc gttttggtag ccagaggaag ctgtcaaaaa tgaaatccct acagatcatc 720
tgtcttcttt tcgttttggg agccagagga agctgtacta caacctaaat gaagtccttc 780
ttattctgtt gcctctttgg cactttctta gctacaggca tgtgt 825

<210> 39

<211> 19

<212> PRT

<213> Notechis ater

<400> 39

Met Lys Ser Leu Gln Ile Ile Cys Leu Leu Phe Val Leu Val Ala Arg

1 5 10 15

Gly Ser Cys

<210> 40

<211> 19

<212> PRT

<213> Notechis ater

<400> 40

Met Lys Ser Leu Gln Ile Ile Cys Leu Leu Phe Val Leu Val Ala Arg

1 5 10 15

Gly Ser Cys

<210> 41

<211> 19

<212> PRT

<213> Notechis ater

<400> 41

Met Lys Ser Leu Gln Ile Ile Cys Leu Leu Phe Val Leu Val Ala Arg

1 5 10 15

Gly Ser Cys

<210> 42

<211> 19

<212> PRT

<213> Notechis ater

<400> 42

Met Lys Ser Leu Leu Phe Cys Cys Leu Phe Gly Thr Phe Leu Ala Thr

1 5 10 15

Gly Met Cys

<210> 43

<211> 57

<212> DNA

<213> Notechis ater

<400> 43

atgaaatccc tacagatcat ctgtcttctt ttcgttttgg tagccagagg aagctgt 57

<210> 44

<211> 57

<212> DNA

<213> Notechis ater

<400> 44

atgaaatccc tacagatcat ctgtcttctt ttcgttttgg tagccagagg aagctgt 57

<210> 45

<211> 57

<212> DNA

<213> Notechis ater

<400> 45

atgaaatccc tacagatcat ctgtcttctt ttcgttttgg tagccagagg aagctgt

57